Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Original) A method of processing a packet having a plurality of layers, comprising:

processing a first layer in accordance with a first protocol; and processing a second layer in accordance with a second protocol in parallel with processing of said first layer when processing of said first layers uncovers sufficient information to support processing of said second layer.

- 2. (Original) A method of processing a data packet according to a plurality of security policies, comprising the steps of:
 - (a) receiving the packet;
 - (b) identifying a first security policy;
 - (c) processing the packet according to the first security policy;
- (d) identifying a second security policy when information necessary for said identification of the second security policy becomes available; and
- (e) processing the packet according to the second security policy, concurrently with step (c).
- 3. (Original) The method of claim 2, wherein said step (c) comprises decryption of data in the packet.

- 4. (Original) The method of claim 3, wherein said decryption is performed according to the data encryption standard (DES).
- 5. (Original) The method of claim 3, wherein said decryption is performed according to the triple data encryption standard (3DES).
- 6. (Original) The method of claim 3, wherein said decryption is performed according to the ARC4 algorithm.
- 7. (Original) The method of claim 2, wherein said step (e) comprises decryption of data in the packet.
- 8. (Original) The method of claim 7, wherein said decryption is performed according to the DES.
- 9. (Original) The method of claim 7, wherein said decryption is performed according to the 3DES.
- 10. (Original) The method of claim 7, wherein said decryption is performed according to the ARC4 standard.
- 11. (Original) The method of claim 2, wherein said step (e) comprises authentication of the data packet.

- 12. (Currently Amended) The method of claim 11, wherein said authentication comprises application of the <u>Multilayer Multilinear Modular Hashing (MMH)</u> algorithm.
- 13. (Original) The method of claim 11, wherein said authentication comprises application of the Hash-based Message Authentication Code (HMAC) Secure Hash Algorithm (SHA)-1.
- 14. (Original) The method of claim 2, wherein said step (e) comprises reencryption of decrypted data from the packet.
- 15. (Original) The method of claim 14, wherein said re-encryption comprises encryption performed according to the Advanced Encryption Standard (AES).
- 16. (Original) A system for processing a data packet according to a plurality of security policies, wherein processes that effect respective security policies can execute in parallel, the system comprising:
 - a packet identification (PID) parser that identifies the packet;
- a plurality of security processing modules, each of which can process the packet according to one of the security policies in parallel with at least one other security processing module; and
- at least one feedback loop or feeding output of at least one of said security processing modules to at least one other security processing module.

- 17. (Original) The system of claim 16, wherein said security processing modules comprise a module for performing decryption according to the DES.
- 18. (Original) The system of claim 16, wherein said security processing modules comprise a module for performing decryption according to the 3DES.
- 19. (Currently Amended) The method system of claim 16, wherein said security processing modules comprise a module for performing Digital Video Broadcast (DVB) descrambling.
- 20. (Currently Amended) The system of claim 13 16, wherein said security processing modules comprise a module for performing HMAC authentication.
- 21. (Previously Presented) The method of claim 3, wherein said decryption is performed in application layer processing.
- 22. (Previously Presented) The method of claim 11, wherein said authentication is performed in application layer processing.